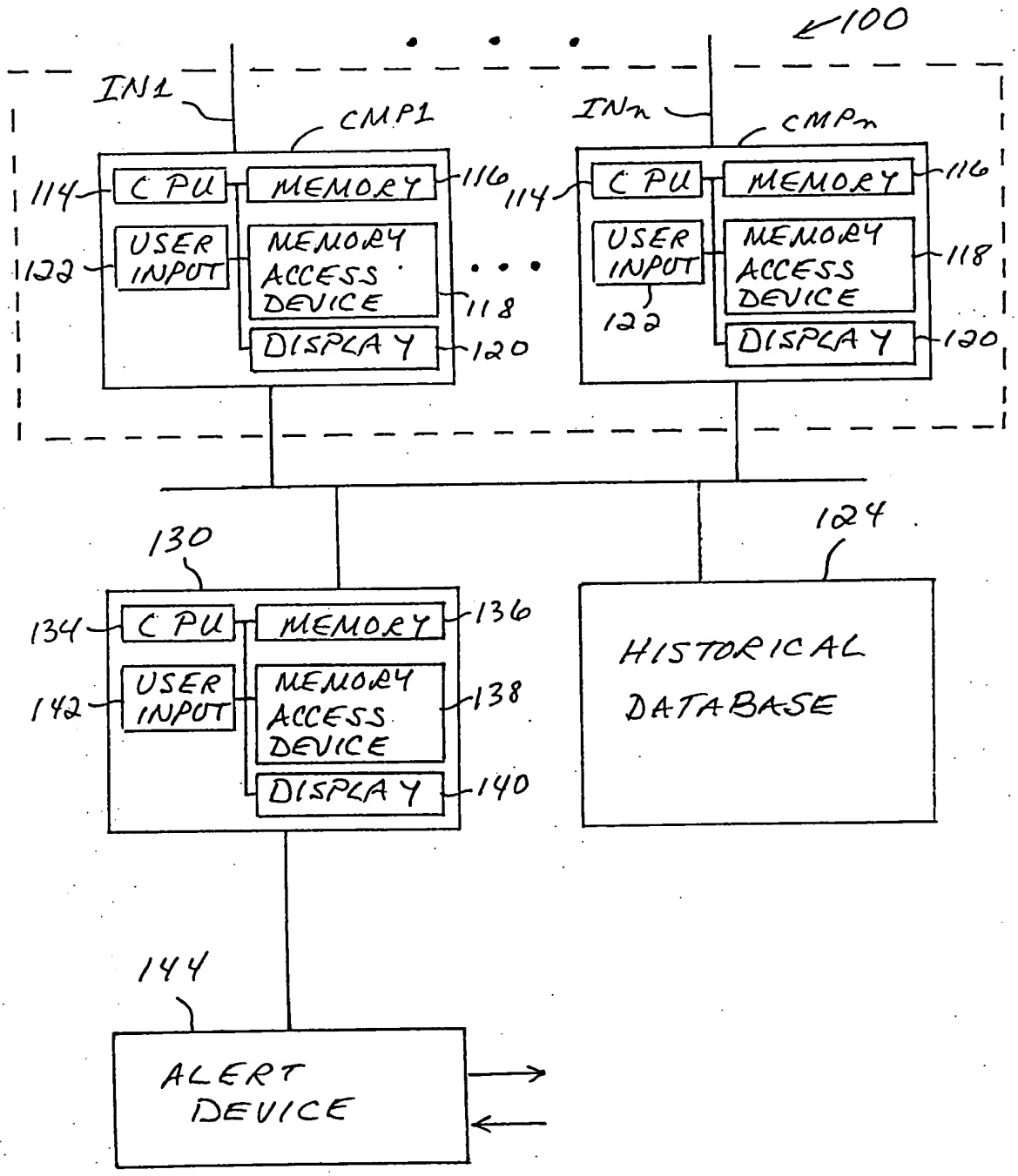
100
IN1
CMP1
INn
CMPn
CPU
MEMORY
USER INPUT
MEMORY ACCESS DEVICE
DISPLAY
114
116
118
120
122
130
134
136
138
140
142
124
HISTORICAL DATABASE
144
ALERT DEVICE

FIG. 1

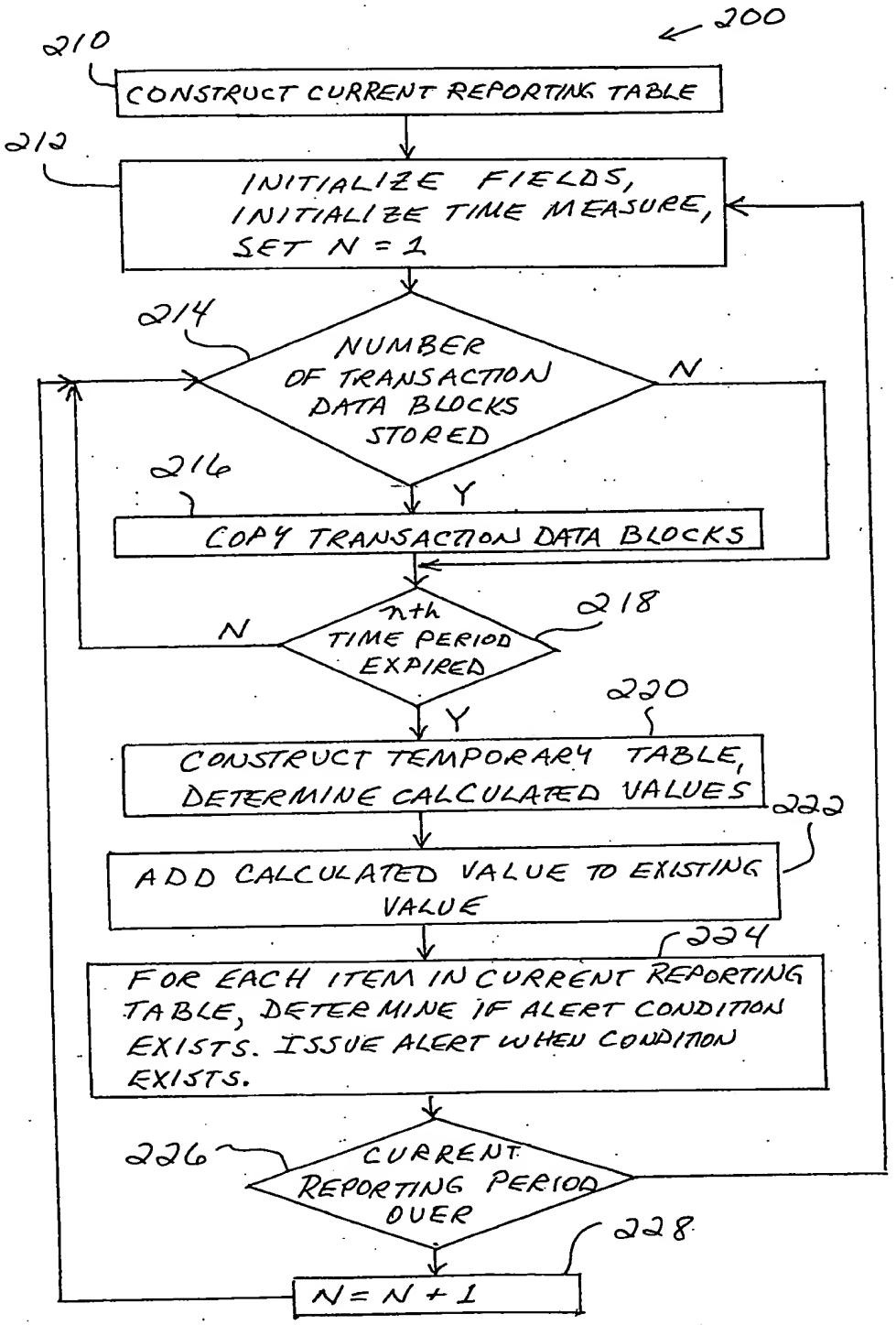
200
210
CONSTRUCT CURRENT REPORTING TABLE
212
INITIALIZE FIELDS, INITIALIZE TIME MEASURE, SET N = 1
214
NUMBER OF TRANSACTION DATA BLOCKS STORED
N
Y
216
COPY TRANSACTION DATA BLOCKS
218
nth TIME PERIOD EXPIRED
N
Y
220
CONSTRUCT TEMPORARY TABLE, DETERMINE CALCULATED VALUES
222
ADD CALCULATED VALUE TO EXISTING VALUE
224
FOR EACH ITEM IN CURRENT REPORTING TABLE, DETERMINE IF ALERT CONDITION EXISTS. ISSUE ALERT WHEN CONDITION EXISTS.
226
CURRENT REPORTING PERIOD OVER
228
N = N + 1

FIG. 2

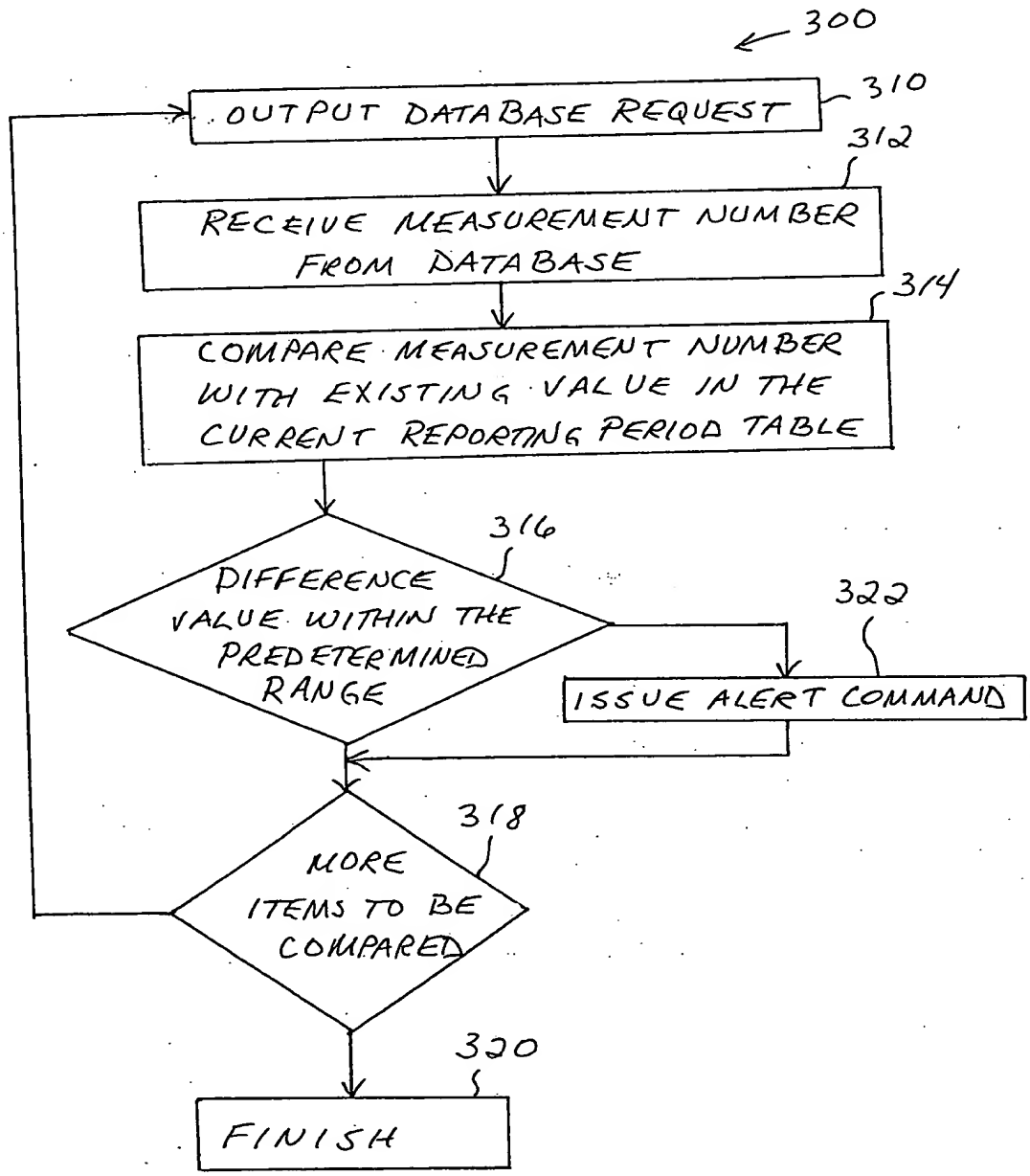
300
OUTPUT DATABASE REQUEST
310
RECEIVE MEASUREMENT NUMBER FROM DATABASE
312
COMPARE MEASUREMENT NUMBER WITH EXISTING VALUE IN THE CURRENT REPORTING PERIOD TABLE
314
DIFFERENCE VALUE WITHIN THE PREDETERMINED RANGE
316
ISSUE ALERT COMMAND
322
MORE ITEMS TO BE COMPARED
318
FINISH
320

FIG. 3

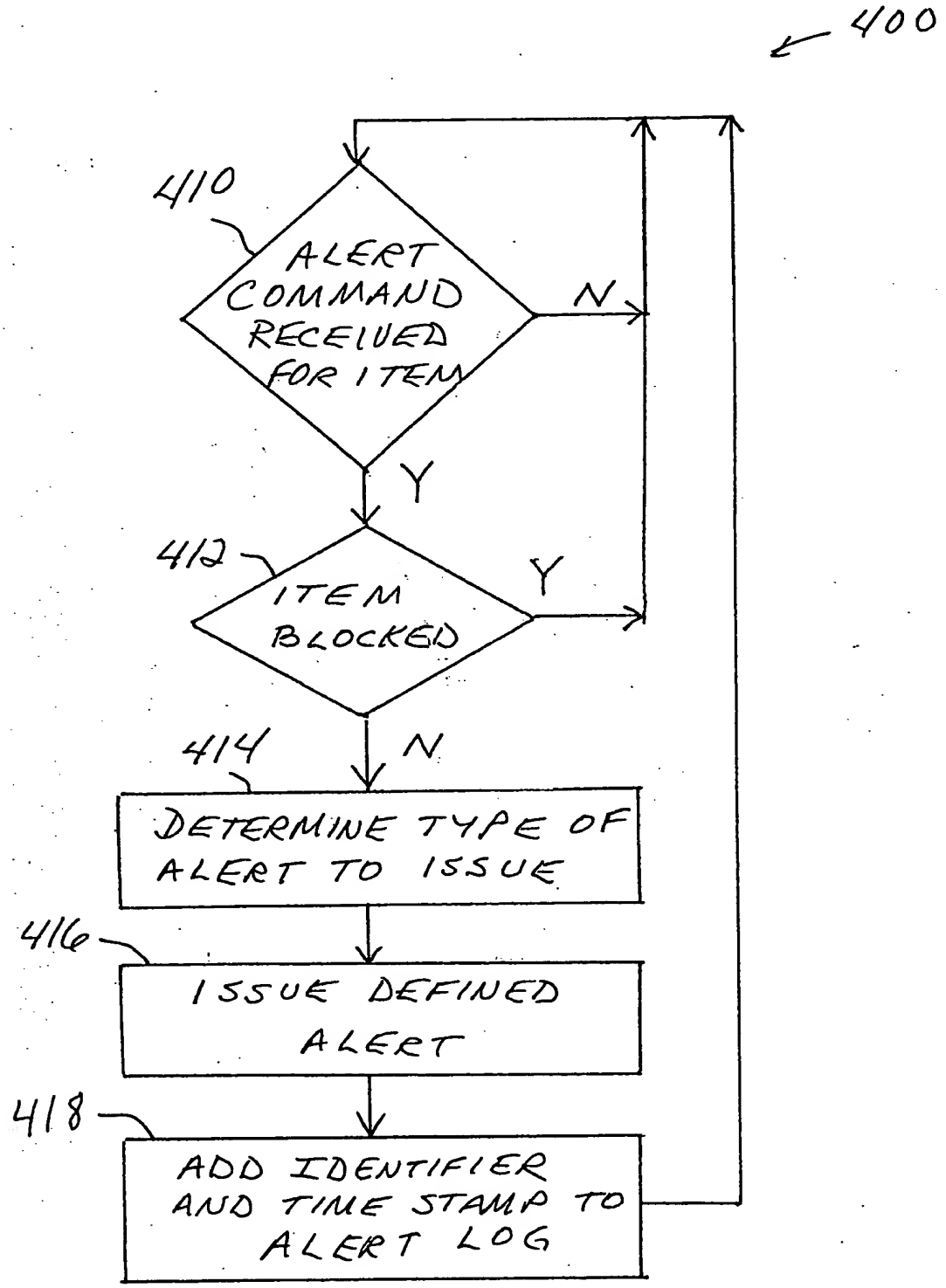
400
410
ALERT COMMAND RECEIVED FOR ITEM
N
Y
412
ITEM BLOCKED
Y
N
414
DETERMINE TYPE OF ALERT TO ISSUE
416
ISSUE DEFINED ALERT
418
ADD IDENTIFIER AND TIME STAMP TO ALERT LOG

FIG. 4

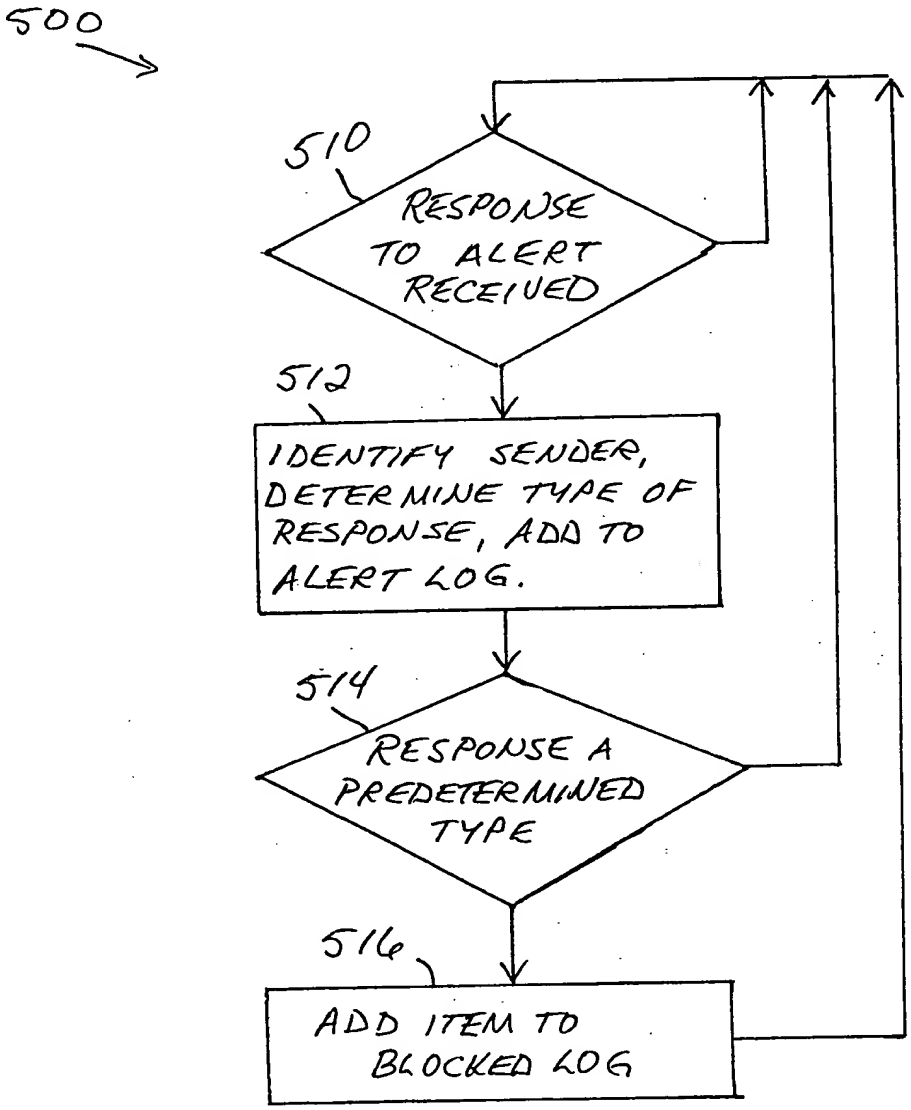
500
510
RESPONSE TO ALERT RECEIVED
512
IDENTIFY SENDER, DETERMINE TYPE OF RESPONSE, ADD TO ALERT LOG.
514
RESPONSE A PREDETERMINED TYPE
516
ADD ITEM TO BLOCKED LOG

FIG. 5

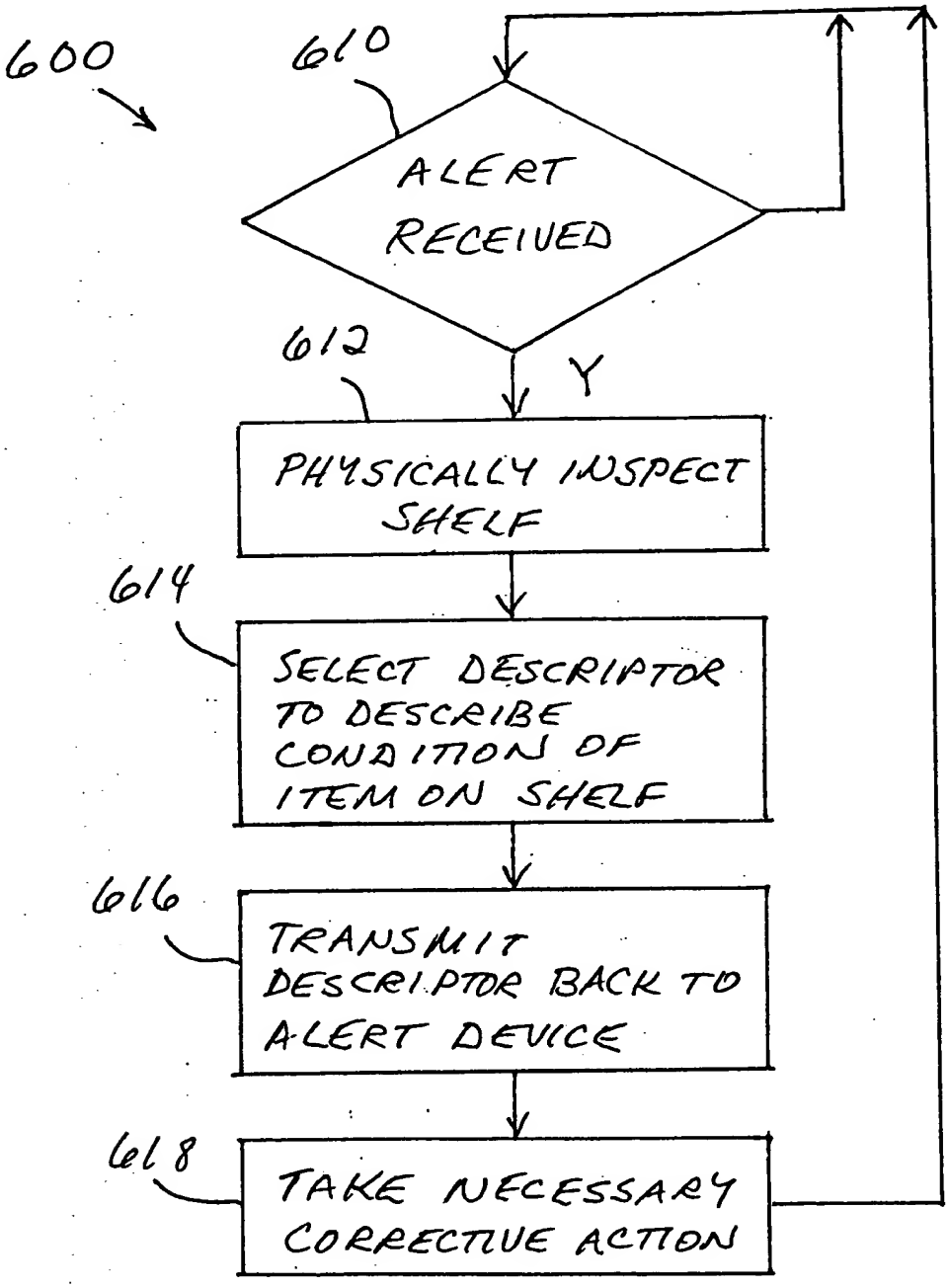
600
610
ALERT RECEIVED
612
Y
PHYSICALLY INSPECT SHELF
614
SELECT DESCRIPTOR TO DESCRIBE CONDITION OF ITEM ON SHELF
616
TRANSMIT DESCRIPTOR BACK TO ALERT DEVICE
618
TAKE NECESSARY CORRECTIVE ACTION

FIG. 6